STORM DRAINAGE FACILITIES IMPROVEMENTS

The Storm Drainage Facilities Improvements Program consists of four major components:

- The Storm Water Management Program (SWMP), which is to reduce the risk of structural flooding by protecting properties from flood damage during a 100-year (1% probability) rainfall event. The program targets local drainage systems and integrates with the primary drainage channels and bayous, which are the responsibility of the Harris County Flood Control District (HCFCD). The FY2006-2010 SWMP projects include the drainage improvements in the TMC as well as seven other projects. This includes: Rustling Oaks and Fonn Villas; Kirkwood and Briar Forest; Whiteheather; Edloe; Sherwood Oaks/Sherwood Estates/Brittmore Village; Yorkshire and Nottingham; and Kirby Relief Phase II. These SWMP projects total approximately \$130 million.
- The Localized Drainage Improvements Program, which consists of small drainage improvement projects, typically less than \$500,000. There is a backlog of small drainage issues which when resolved can protect many homes from structural flooding. In many cases one section of pipe, a missing overflow section, or inadequate inlets are the only improvements needed to solve the problem. A quick solution will resolve the problems of an otherwise adequate system. On-call engineering and construction contracts will be used to address these problems quickly and cost effectively. The FY2006-2010 program totals approximately \$14 million.
- The Comprehensive Drainage Plan (CDP), which prioritizes projects based on specific criteria such as the number of reported structural flooding incidents and repetitive loss properties, has identified approximately \$1.6 billion of inadequate systems in the City to be upgraded. This program prioritizes, scopes, designs, and constructs solutions to the inadequacies identified for this long-term program.

The projects selected to start this program have the highest numbers of flood-damaged properties by drainage area. Each project will be designed to keep the localized drainage in the piping or street sheet flow system to protect the structures from flooding during the 100-year rainfall event. Properties within a riverine 100-year flood zone will be protected from local drainage flooding, but may not be protected from the riverine flooding until the Harris County Flood Control District projects are completed. Funding for these projects total approximately \$100 million.

 Street reconstruction projects sponsored by TxDOT require the local sponsor (City of Houston) to pay for storm drainage improvements associated with its street reconstruction projects. The FY2006-2010 program has identified approximately \$8.8 million to support these projects.

Projects supported by Community Development Block Grants (CDBG) funding include \$4 million in FY2006 and \$4 million in FY2007. Eligible projects identified for CDBG participation include Sunnyside Court (M-0217) and Lancaster Relief (M-0228). Funding levels of \$2 million in FY2006 have been established for each project, respectively. FY2007 projects include \$1 million for Local Drainage Improvements Program (M-0126) and \$3 million for Sharpstown Storm Improvements.

In summary, the FY2006-2010 Storm Drainage Facilities Improvements Program totals \$261 million and is funded primarily by general obligation debt supported by a transfer from the Combined Utility Fund (Water and Wastewater Enterprise Fund). Other funding sources include \$21 million in grant funds (CDBG and FEMA).

CITY OF HOUSTON

		SOU			UMMARY		ANDO	ı ————————	
Source of	Appropriations through	Appropriations	Fisca	al Year Plan	ned Appro	priations		Total	Total
Funds	Dec. 31, 2004	Jan.1 - June 30 2005	2006	2007	2008	2009	2010	2006-2010	
FEMA	27,095	17,137	8,893					8,893	53,125
Tex Med Center Participation		5,000						0	5,000
Prop. Ser-F Storm Sewer C.F.						50,000	50,000	100,000	100,000
Proposed CDBG				4,000	4,000			8,000	8,000
Storm Sewer Cons. Const. Fund	63,620							0	63,620
Community Development Blk Grant		4,000	4,000					4,000	8,000
Accumulated Unexpended Fund	4,018							0	4,018
Ser-F Storm Sewer Const. Fund	2,325	39,547	49,785	45,284	45,000			140,069	181,941
Total	97,058	65,684	62,678	49,284	49,000	50,000	50,000	260,962	423,704
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FY2006 - 2010 CAPITAL IMPROVEMENT PLAN (\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
Storm Dra	ainage Facil	ities						
M-0126	VAR	LOCAL DRAINAGE IMPROVEMENT PROJECTS	2,000 DC	2,000 C	3,000 C	3,000 C	3,000 C	13,000DC
M-0186	ı	CENTRAL PARK SUBDIVISION RELIEF LATERALS	6,325 C					6,325C
M-0189	CG	DUNVALE-LIPAN RELIEF STORM SEWER	575 C					575C
M-0209	А	SHERWOOD OAKS, SHERWOOD ESTATES AND BRITTMOORE VILLAGE		426 D		2,133 E		2,559DE
M-0217	D	SUNNYSIDE COURT STORM SEWER LATERALS	4,600 C					4,600C
M-0220	ALL	SWMP: PROGRAM MANAGEMENT AND TECHNICAL SERVICES	2,500 D	2,500 D	2,500 D	2,500 D	2,500 D	12,500D
M-0228	1	LANCASTER RELIEF STORM SEWER	4,200 C					4,200C
M-0230	G	KIRBY RELIEF STORM SEWER (RIVER OAKS)	650 D		7,200 C			7,850DC
M-0241	VAR	STORMWATER PUMP STATION IMPROV. AT VAR. UNDERPASSES	2,700 C					2,700C
M-0247	G	YORKSHIRE AND NOTTINGHAM STORM SEWER IMPROVEMENTS			5,500 C			5,500C
M-0248	G	WILCHESTER, MEMORIAL WAY, & MEMORIAL TRAILS DRAINAGE IMPROV.	5,500 C					5,500C
M-0249	G	RUSTLING OAKS & FONN VILLAS SUBDIVISION STORM SEWER IMPROV.			3,000 C			3,000C

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN (\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
Storm Dra	ainage Facil	lities						
M-0250	G	KIRKWOOD BRIAR FOREST DRAINAGE IMPROVEMENTS			450 D		3,000 C	3,450DC
M-0253	С	EDLOE STREET AREA (BRAESWOOD PLACE) STORM SEWER RELIEF		2,500 C			2,700 C	5,200C
M-0255	С	BRAES BLVD. AND ACADEMY ST.: NEW STORM DRAINAGE TRUNK LINE		600 D	2,700 C	2,500 C		5,800DC
M-0256	CF	SHARPSTOWN STORM SEWER IMPROVEMENTS	3,328 C	2,000 C	1,000 C			6,328C
M-0257	Н	WOODLAND HEIGHTS STORM SEWER IMPROVEMENTS		6,779 C				6,779C
M-0260	C/D	TEXAS MEDICAL CENTER DRAINAGE IMPROVEMENTS	3,271 C	1,852 C				5,123C
M-0261	G	BUFFALO BAYOU DETENTION POND		1,270 C				1,270C
M-0262	D	WHITEHEATHER STORM SEWER IMPROVEMENTS			4,600 DC	3,600 C	4,000 C	12,200DC
M-0263	G	SHERWOOD FOREST STORM SEWER SYSTEM		300 D	5,000 C			5,300DC
M-0265	C,F	WESTMORELAND, SHARSPTOWN, BRAEBURN, MAPLEWOOD		1,030 D	1,030 D	5,766 DC	5,766 DC	13,592DC
M-0266	E	KIRKWYN, SAGEMONT PARK			1,409 C			1,409C
M-0267	C,D,G	RIVER OAKS		767 D	767 D	4,296 DC	3,529 C	9,359DC

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN (\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
Storm Dra	ainage Facil	ities						
M-0268	E	GULF MEADOWS, KIRKWOOD, SOUTH SEGEMONT	332 D		1,528 C			1,860DC
M-0269	В	CLAIRMONT PLACE	336 D		1,546 C			1,882DC
M-0270	В	LAKEWOOD ESTATES			300 D		1,103 C	1,403DC
M-0271	С	MEYERLAND EAST		306 D		1,408 C		1,714DC
M-0272	D,E	CRESTMONT PARK, SOUTH ACRES	310 D		310 D	1,427 C	1,427 C	3,474DC
M-0273	ı	CAPISTRANO VILLAS, GLENBROOK VALLEY, HOLIDAY FOREST		405 D		1,865 C		2,270DC
M-0274	Н	GLEN OAKS (NORTHLINE FROM CANINO TO I-45)		849 D	849 D	3,903 C	3,903 C	9,504DC
M-0275	G	LAKESIDE PLACE, VILLAGE WEST, ASHFORD VILLAGE		818 D		3,763 C		4,581DC
M-0276	E	SCARSDALE (ASTORIA FROM FLUSHING MEADOWS TO BINGHAMPTON)			460 D		2,117C	2,577DC
M-0277	D,E	SOUTHPARK, SOUTHCREST			752 D		4,212 DC	4,964DC
M-0278	С	UPPER KIRBY				5,750 C		5,750C
M-0279	С	MEYERLAND WEST			208 D	957 C		1,165DC

LEGEND:

A = ACQUISITION

D = DESIGN

C = CONSTRUCTION

E = EQUIPMENT

O = OTHER

R = ART

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN (\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
Storm Dra	ainage Facil	lities						
M-0280	G	ASHFORD VILLAGE, NOTTINGHAM FOREST, BRAES VILLAGE		340 D		1,564 C		1,904DC
M-0281	С	MEYERLAND, WESTBURY			306 D		1,409 C	1,715DC
M-0282	В	HOUSTON GARDEN, HOMESTEAD			1,191 D		5,477 C	6,668DC
M-0283	F	CATALINA SQUARE, ROBINDELL			389 D		1,791 C	2,180DC
M-0284	Н	GLEN OAKS (AIRLINE DRIVE FROM CANINO TO LITTLE YORK)			1,101 D			1,101D
M-0285	A,H	GARDEN OAKS, SHEPHERD FOREST				887 D		887D
M-0286	В	PLEASANTVILLE				756 D		756D
M-0287	A,H	RIDGECREST, HILLENDAHL ACRES, MONARCH OAKS, AFTON VILLAGE				714 D		714D
M-0288	I	EDGEBROOK, EASTHAVEN				816 D		816D
M-0289	D	HOLLOWAY HEIGHTS, ALMEDA-GENOA	***************************************				1,280 D	1,280D
M-0290	C,D,I	FOURTH WARD, AVONDALE					1,093 D	1,093D
M-0291	E	FREEWAY MANOR, SAGEMONT				280 D		280D

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN (\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
Storm Dra	ainage Facil	lities						
M-0292	В	TRINITY-HOUSTON GARDENS	750 D	6,000 C				6,750DC
M-0531	ВН	SOUTH OF LITTLE YORK FROM HARDY TOLL ROAD TO HALLS BAYOU	11,800 C	100 m				11,800C
M-0574	Е	MONROE ALMEDA GENOA TO FUQUA		1,700 C				1,700C
M-0582	Е	SOUTH SHAVER: GULF FREEWAY TO HWY 3		1,300 C				1,300C
M-0589	А	TANNER ROAD: HEMPSTEAD TO BELTWAY 8		2,100 C				2,100C
M-0596	А	BRITTMOORE:I-10 TO HAMMERLY STORM SEWERS	1,700 C					1,700C
M-0597	А	BRITTMOORE: HAMMERLY TO CLAY DETENTION POND		2,000 C				2,000C
M-0771	С	KIRBY DRIVE STORM IMPROVEMENTS: S. W. FRWY TO BRAYS BAYOU	10,068 C	9,648 C				19,716C
M-0800	VAR	DEVELOPER PARTICIPATION	1,500 C	1,500 C	1,500 C	1,500 C	1,500 C	7,500C
M-NA	ALL	CONTINGENCIES	233 0	294 0	404 O	615 O	1930	1,7390
		TOTAL PLAN:	62,678	49,284	49,000	50,000	50,000	260,962